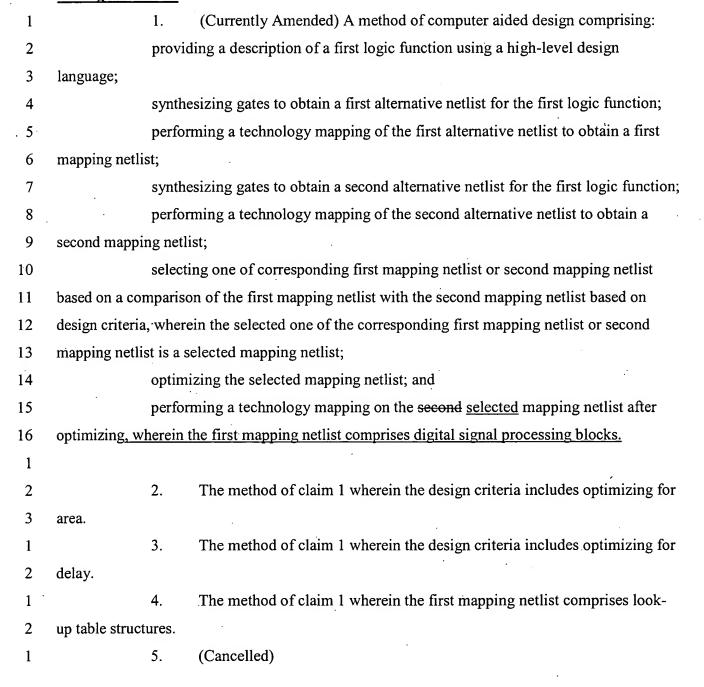
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:



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| 1 | 6. The method of claim 1 wherein the first alternative netlist comprises logic |
|-----|--|
| 2 | gates. |
| 1 | 7. (Currently Amended) The method of claim 1 wherein the step of |
| 2 | performing a technology mapping of the first alternative netlist to obtain a first mapping netlist is |
| 3 | done on a copy of the first alternative netlist. |
| 1 | 8. (Currently Amended) A method of logic synthesis comprising: |
| 2 | generating a first alternative netlist for a logic function; |
| 3 | generating a second alternative netlist for the logic function, wherein the second |
| 4 | alternative netlist has a different gate configuration from the first alternative netlist; and |
| 5 | selecting one of the first <u>alternative netlist</u> or <u>the</u> second alternative netlists as a |
| 5 | selected alternative netlist based on results of a technology mapping of the first alternative netlist |
| 7 | and the second alternative netlists, wherein the first alternative netlist includes a digital signal |
| 8 | processing block. |
| 1 | 9. The method of claim 8 further comprising: |
| 2 | performing a synthesis optimization on the selected alternative netlist to obtain a |
| 3 | optimized selected alternative netlist. |
| 1 | 10. The method of claim 8 further comprising: |
| 2 | performing a synthesis optimization on the selected alternative netlist to obtain a |
| 3 | optimized selected alternative netlist; and |
| 4 | performing a technology mapping on the optimized selected alternative netlist. |
| 1 | 11. (Currently Amended) The method of claim 8 wherein the selecting one of |
| 2 | the first <u>alternative netlist</u> or <u>the</u> second alternative netlists is based on area. |
| 1 | 12. (Currently Amended) The method of claim 8 wherein the selecting one of |
| 2 | the first <u>alternative netlist</u> or <u>the</u> second alternative netlists is based on depth. |
| 1 · | 13. (Currently Amended) A method of logic synthesis comprising: |
| 2 | generating a netlist for a logic function; |
| 3 | performing a first technology mapping on the netlist; |
| 4 | after the first technology mapping, performing a synthesis optimization on the |
| 5 | netlist; and |

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| 6 | after the synthesis optimization, performing a second technology mapping on the |
|---|---|
| 7 | netlist, wherein the first technology mapping includes a digital signal processing block. |

- 1 14. The method of claim 13 wherein the first technology mapping maps the netlist to the same target technology as the second technology mapping.
- 1 15. The method of claim 13 wherein the logic function is provided in a high-2 level design language.